

*Prav A. J*  
 Figure 1, Current RF Reader Connection to a Service

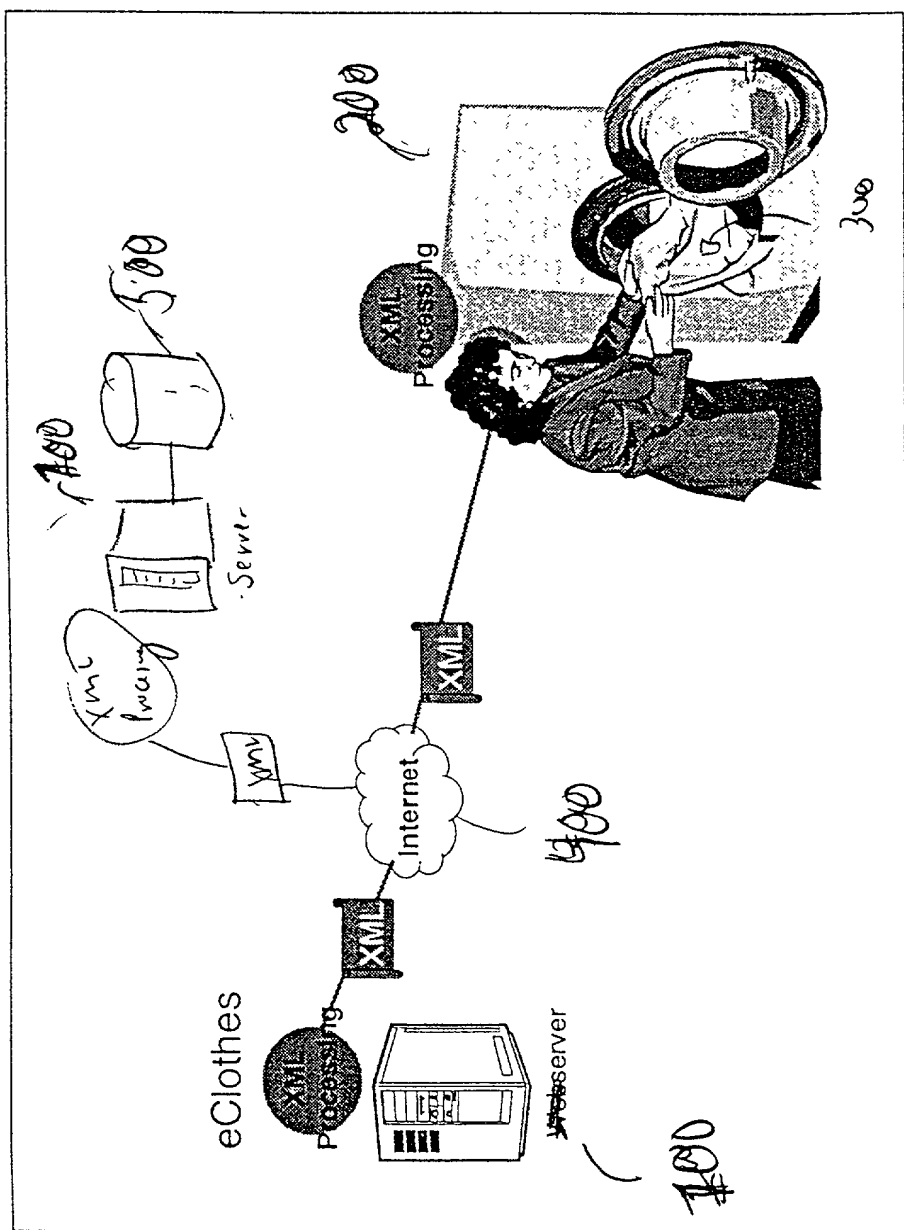


Figure 2, ~~Washing Machine enabled by the tag terminal~~

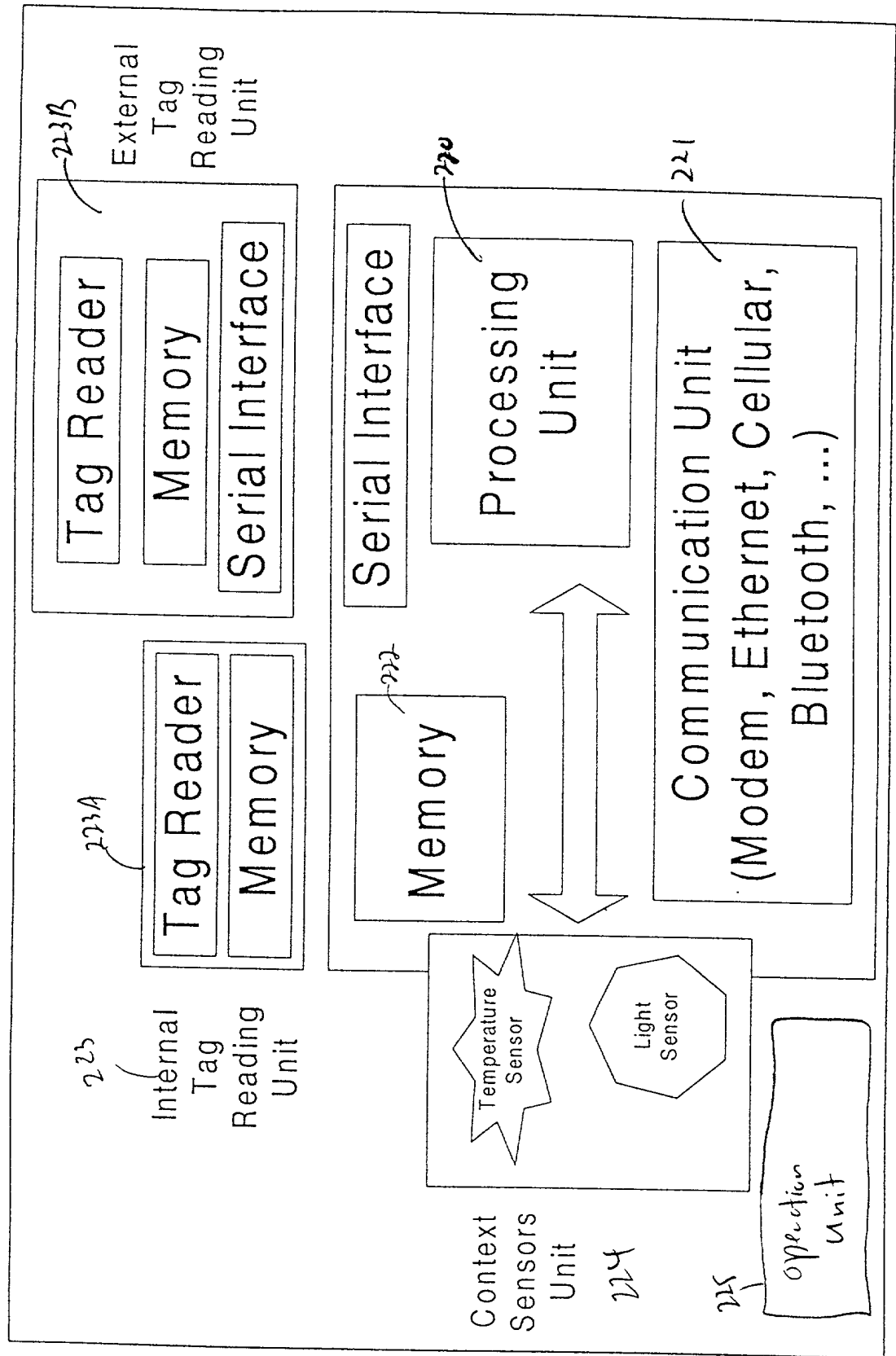


Figure 3, Hardware Design of Terminal

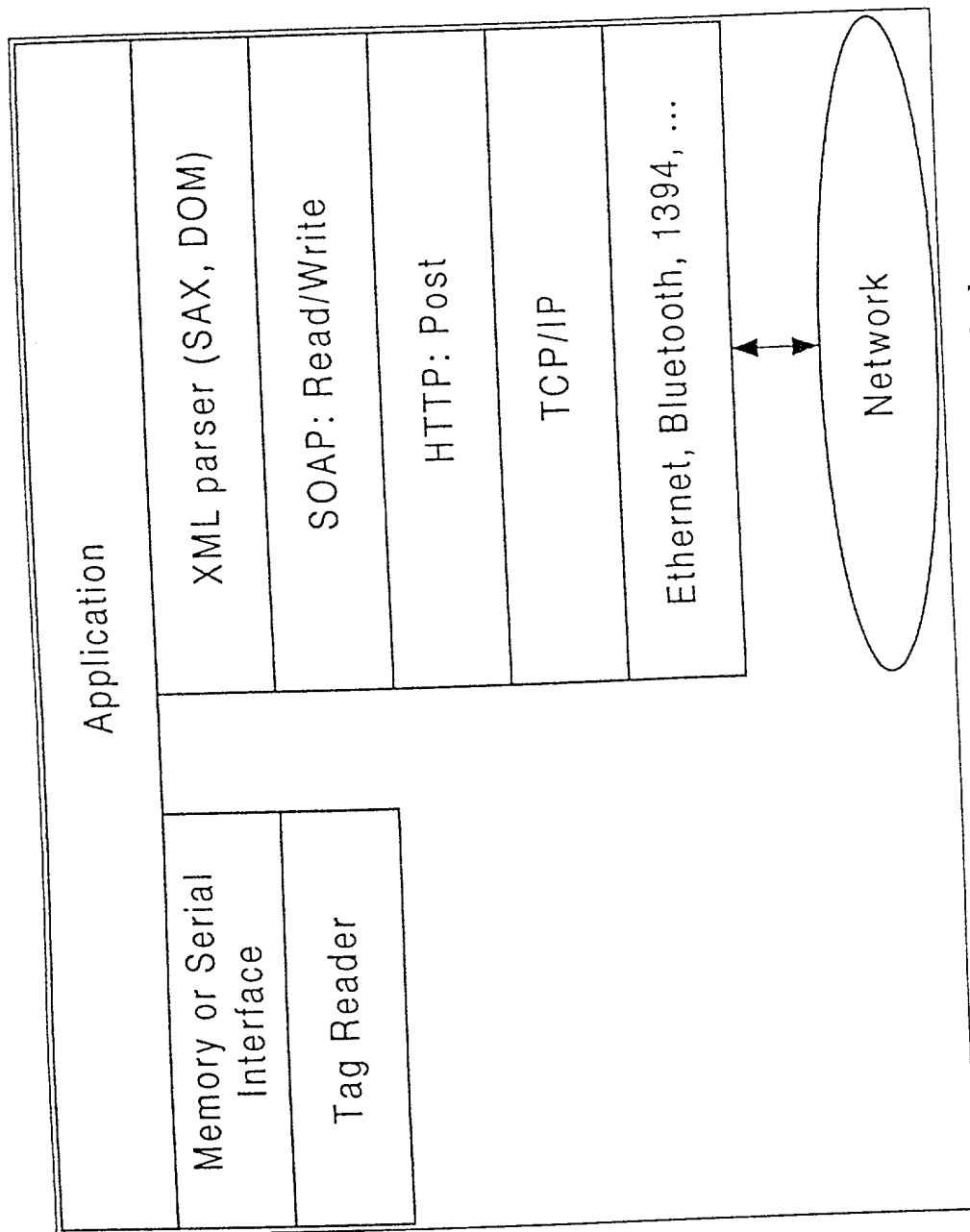


Figure 4, ~~Communication Stacks for Terminal~~

POST /soap/servlet/rpcrouter HTTP/1.1

Connection: Keep-Alive

Host: http://www. PhilipsServiceRouter.com:8080

Content-type: text/xml

Content-length: 527

SOAPAction: ""

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsi="http://www.w3.org/1999/XMLSchema-instance" xmlns:xsd="http://www.w3.org/1999/XMLSchema">
  <SOAP-ENV:Body>
    <m: getWashingMachineSettings s xmlns:m="http://www.PhilipsServiceRouter.com/soap/WashingMachineSetting"
      SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
      <Reader>
        <Number> 1234567 </Number>
        <Manufacturer> Philips Semiconductor </Manufacturer>
      </Reader>
      <Garment>
        <RFTag xsi:type="xsd:string"> AC 7B 9C 00 00 00 01 </RFTag>
        <Owner xsi:type="xsd:string"> Gap Clothes</Owner>
      </Garment>
      <Terminal>
        <Brand xsi:type="xsd:string"> Whirlpool</Brand>
        <Model xsi:type="xsd:string"> I510M</Model>
      </Terminal>
    </m: getWashingMachineSettings >
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

F44 5

HTTP/1.0 200 OK

Date: Wed, 13 Sep 2000 16:02:38 GMT

Status: 200

Set-Cookie2: JSESSIONID=To1075mC3300827385008166At;Version=1;Discard;Path="/soap"

Servlet-Engine: Tomcat Web Server/3.1 (JSP 1.1; Servlet 2.2; Java 1.3.0; Windows

NT 4.0 x86; java.vendor=Sun Microsystems Inc.)

Set-Cookie: JSESSIONID=To1075mC3300827385008166At;Path=/soap

Content-Type: text/xml; charset=UTF-8

Content-Length: 707

Content-Language: en

<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"  
xmlns:xsi="http://www.w3.org/1999/XMLSchema-instance" xmlns:xsd="http://www.w3.org/1999/XMLSchema">

<SOAP-ENV:Body>

<ns1:getWashingMachineSettings

xmlns:ns1="http://www.PhilipsServiceRouter.com/soap/WashingMachineSetting" SOAP-

ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">

<return xmlns:ns2="urn:Whirlpool-WashingMachine-Settings" xsi:type="ns2:WMResponse">

<washing xsi:type="ns2:washing">

<temperature xsi:type="xsd:int">150</temperature>

<time xsi:type="xsd:int">20</time>

<rpm xsi:type="xsd:int">120</rpm>

.....

</washing>

<spinning xsi:type="ns2:spinning">

<time xsi:type="xsd:int">5</time>

<rpm xsi:type="xsd:int">600</rpm>

.....

</spinning>

</return>

</ns1:getWashingMachineSettings >

</SOAP-ENV:Body>

</SOAP-ENV:Envelope>

fig. 6